Bharat Bijlee			for motors			
	arat Bijlee Ltd.		Customer			
<b>Fype of motor 3 P</b>	hase Induction Motor		BBL Enquiry reference No			
Quantity			Customer P.O.Number			
Application	CUSTOMI	ER TO FURNISH	W.O. No. / SAP No.			
Гag no.			Output kW / pole	0.37	/	4P
BBL type tef.		2J080415	Frame size		MJ80	
Installation details		-	Applicable standards (latest edition)			
Area classification (S	afe / Hazardous)	Hazardous	Performance: IS/IEC 60034-1 Maintenance IS:900	FLP Mote	ors: IS/IEC 6	0079-1
Location: indoor/outo	loor/deck	Indoor	Dimensions: IS 1231/IS 2223/IS:8223			
Altitude (meters)		1000 or less	Vibrations: IS 12075			
			Noise level: IS 12065			
Hazardous area deta	vils		Supply conditions and permissible variations (grid	d supply	)	
Area classification G	AS (Zone 1/Zone 2)	ZONE I	Number of phases		Three	
Gas group		IIA, IIB	Voltage (Volts) and permisible variation	415	±1(	0%
Temp.class		T6	Frequency (Hz) and permissible variation	50	±5	5%
Type of Explosion pr e'/Type 'n')	otection (FLP/Type	Ex d	Combined variation (absolute sum)		±10%	
Approving authority	for hazardous area	If Coal Mine application then DGMS else PESO				
Electrical parameter	·S		<u> </u>			
Starting performanc						
Method of starting		DOL	Starting current (%FLC)		500	
Load speed (rpm)		CUSTOMER TO FURNISH	Starting torque (%FLT)		240	
Motor $GD^2$ (kgm <sup>2</sup> )		0.0061	Pull out torque (%FLT)	240		
		CUSTOMER TO FURNISH		30	/	60
Load GD <sup>2</sup> (kgm <sup>2</sup> )		Parabolic TS curve	Locked rotor withstand time (hot/cold) (sec)Number of consecutive starts (hot/cold) (nos.)	30	/ 2/3	00
Load torque-speed ct			provided Load GD2 = Motor GD2		273	
Starting time at rated	voltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS				
Running Performan	ce					
Efficiency class		IE2	Duty and designation	Continuous (S1)		
•	rise by resistance (deg.C)	45 / 75	CDF/Equivalent starts per hour/FI		_	,
Enclosure		TEFC (TOTALLY ENCLOSED FAN COOLED)	Insulation class / utilisation class on DOL	F/B		
Full load current (FL	C) amps.	0.96	Rotor type (Squirrel Cage/ Slip ring )	Squirrel Cage		
Full load speed (rpm)	, <b>1</b>	1415	Rotor voltage/rotor current (RV/RA) (Volts/Amps)		Not applical	0
Full load torque (FLT		0.25	Stator/rotor time constant (min)		90/122	_ ~
Efficiency in % at FL		72.7 72.7 67.7	Power factor at FL/0.75FL/0.5FL	0.74	0.68	0.55
Mechanical paramet		, <u>,</u> , , , <u>,</u> , , , <u>,</u> , , , , , , , , ,			0.00	0.00
Mounting		B5	Mounting dimensions	R	efer GA drav	wing
Shaft extention		Single cylindrical	Direction of rotation viewed from DE	1.(	Clockwise	<u> </u>
Degree of protection		IP 55	Suitable for bidirectional rotation	Yes		
Method of cooling (T						
cooled/TESC)			Paint type	Acid Alkali Proof		
Net weight of motor	(kgs.)	31	Paint shade	632 as per IS 5		
			Earthing provision (two terminals on stator body)		Yes	
Bearings			Terminal box			
Coupling (Direct/flex	ible/Belt &	Direct	Terminal box location when viewed from DE	Ac nor CA dramine		
				As per GA drawing		
Pulley/Gearbox)			Direction of cable entry	As per GA drawing		
	y (OD x width) mm			1R X 3C X 4 SQ MM		
Dimenssions of pulle		Ball /Ball	Cable size and type(Aluminium)			
Dimenssions of pulle Bearings (roller/ball/a	angular contact)		Cable size and type(Aluminium) Earthing provision (one terminal in TB)		Yes	
Dimenssions of pulle Bearings (roller/ball/a Bearing size DE/NDI	angular contact)	6204 2Z C3 / 6204 2Z C3				· ~
Dimenssions of pulle Bearings (roller/ball/a Bearing size DE/NDI	angular contact)	6204 2Z C3 / 6204 2Z C3	Earthing provision (one terminal in TB)		Yes 3 / STAR /	ʻ 3
Dimenssions of pulle Bearings (roller/ball/a Bearing size DE/NDI	angular contact)	6204 2Z C3 / 6204 2Z C3	Earthing provision (one terminal in TB) No of phases/Winding connection/number of			′ 3
Dimenssions of pulle Bearings (roller/ball/a Bearing size DE/NDI Type of lubrication	angular contact)	6204 2Z C3 / 6204 2Z C3	Earthing provision (one terminal in TB) No of phases/Winding connection/number of			′ 3
Dimenssions of pulle Bearings (roller/ball/a Bearing size DE/ND Fype of lubrication Accessories RTDs - 3 numbers size	angular contact) E	6204 2Z C3 / 6204 2Z C3	Earthing provision (one terminal in TB) No of phases/Winding connection/number of terminals			′ 3
	angular contact) E mplex (w/o controller) • bearing (w/o controller)	6204 2Z C3 / 6204 2Z C3	Earthing provision (one terminal in TB) No of phases/Winding connection/number of terminals Arrow plate for direction of rotation Double compression glands (main cable) Double compression glands (Space			<u> </u>
Dimenssions of pulle Bearings (roller/ball/a Bearing size DE/NDI Fype of lubrication Accessories RTDs - 3 numbers size BTDs - 1 number per Space heaters - single	angular contact) E mplex (w/o controller) bearing (w/o controller) e phase 50z, 230V	6204 2Z C3 / 6204 2Z C3	Earthing provision (one terminal in TB) No of phases/Winding connection/number of terminals Arrow plate for direction of rotation Double compression glands (main cable)			<u>    3                                </u>
Dimenssions of pulle Bearings (roller/ball/a Bearing size DE/NDI Fype of lubrication Accessories RTDs - 3 numbers size BTDs - 1 number per	angular contact) E mplex (w/o controller) bearing (w/o controller) e phase 50z, 230V number per phase	6204 2Z C3 / 6204 2Z C3	Earthing provision (one terminal in TB) No of phases/Winding connection/number of terminals Arrow plate for direction of rotation Double compression glands (main cable) Double compression glands (Space heater/thermisters/RTDs)			<u>'</u> 3

Notes:

1)All performance values are subject to IS/IEC 60034-1 tolerances, unless otherwise specified.

2)Performance values are at rated voltage and rated frequency condition and for DOL starting condition.

3)Motor  $GD^2$  = Load  $GD^2$  assumed wherever not mentioned.

4)Where starting time is more than 10 seconds, provision of heavy duty relays is mandatory.

5)Kilowatt rating is mandatory and HP is approximate.

6) Accessories provided are marked as "YES"

		Prepared by	
		Approved by	
		Revison	
Project:	Contractor/Client	Deter	
Consultant	Package	Date:	